HANCOCK

PORTAGE LAKE SHIP CANAL

HOUGHTON

COORDINATE TABLE

STATION	DESCRIPTION	COORDINATES NORTHING	EASTING
BRIDGE	ALUM. CAP	857615.825	25854270.285
PICNIC	ALUM. CAP	856998.274	25855915.293
SALT	ALUM. CAP	857836.849	25857486.579
FLG POLE	NAVG. AD	856020.562	25856894.474
CHURCH	NAVG. AD	856026.875	25857837.399
PT. 61	E. CHANNEL LINE	856995.8	25847940.3
PT. 63	E. CHANNEL LINE	856969.8	25850449.3
PT. 65	E. CHANNEL LINE	857617.0	25856062.0
PT. 67	E. CHANNEL LINE	857423.8	25860233.6
PT. 69	E. CHANNEL LINE	858888.1	25862215.8
PT. L	CENTERLINE	856862.5	25846776.8
PT. M	CENTERLINE	856605.8	25849029.3
PT. N	CENTERLINE	857406.3	25857068.5
PT. O	CENTERLINE	857236.8	25860106.5
PT. P	CENTERLINE	858692.2	25861946.2
PT. 52	W. CHANNEL LINE	857050.0	25847163.4
PT. 54	W. CHANNEL LINE	856429.5	25849908.5
PT. 56	W. CHANNEL LINE	857204.0	25855578.5
PT. 58	W. CHANNEL LINE	857236.5	25856574.2
PT. 60	W. CHANNEL LINE	857057.3	25859647.0
PT. 62	W. CHANNEL LINE	856844.3	25860611.1

COMBINED GRID SCALE FACTOR = 1.00000989
GRID DIST. DIVIDED BY COMBINED GRID SCALE FACTOR = GROUND DIST.

GN TN
-01° 08' 04"
(AT CENTER OF SHEET)

NOTE

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED. EVEN STATIONS SURVEYED ON EVEN YEARS / ODD STAIONING ON ODD YEARS. DATE OF SURVEYS FOR 2000 = AUGUST 20, 2000. (THESE SOUNDINGS ARE ON LEVEL 61)

NOTES

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.

2) ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 601.1 ABOVE MEAN SEA LEVEL. I.G.L.D. 1985.

3) PROJECT DEPTHS FOR THIS AREA ARE 25 FT.

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111). NORTH AMERICAN DATUM 1983 (NAD 83). US FOOT.

5) THE LOCATION OF NAVIGATION BUOYS REPRESENTS THE GENERAL LOCATION ON THE DATE OF THE SURVEY AND CANNOT BE CONSIDERED FOR NAVIGATION.

6) THE SURVEY SHOWN WAS CONDUCTED BY D. GOLTZ, PARTY CHIEF DURING 10 OCT. 2001. USING D.G.P.S. POSITIONING, AN INNERSPACE 448 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

LEGEND

- △ HORIZONTAL CONTROL POINT G.P.S.
- △ HORIZONTAL CONTROL POINT
- ○ DREDGING LIMIT TURNING POINT
- CHANNEL LINE TURNING POINT
- CENTER LINE 00+00
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR
- 15+00 — CENTER LINE STATIONS

KEWEENAW WATERWAY

AREA MAP

VICINITY MAP & SHEET INDEX

T' = 200'
200 0 200 400 600

AREA 12

NO.	DATE	REVISION	BY

U.S. ARMY ENGINEER DISTRICT, DETROIT
CORPS OF ENGINEERS
DETROIT, MICHIGAN

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY - APRIL 2001

DULUTH AREA OFFICE   DULUTH, MN

DESIGNED BY:*
DRAWN BY:*
CHECKED BY:*
REVIEWED BY:*
SUBMITTED BY:*
CHIEF, PROJ. OPNS. SEC.   CHIEF, DYS BRANCH
APPROVED:*
CHIEF, CONST. OPNS. DIVN.

APPROVAL RECOMMENDED:*
DATE

SCALE AS SHOWN 1" = 200'
CADD FILE NAME KWH12C01.DGN
SHEET 1 OF 1
DRAWING NUMBER

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/12-11